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(54) NEW PHYSIOLOGICALLY ACTIVE SUBSTANCE,
ITS PRODUCTION AND USE

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a new physiologically active substance that comprises a ligand polypeptide of a G-protein conjugate type receptor protein having a specific amino acid sequence and is useful in development of medicines such as pituitary function controller, central function controller or pancreatic function controller.

SOLUTION: This substance comprises a new ligand

polypeptide of G-protein conjugate type receptor protein bearing an amino acid sequence (substantially) identical to the formula (its amide, ester or salt) and is useful for the development of receptor-linking assay system using a recombinant type receptor protein expression system and the development of therapeutic and preventing agents for a variety of diseases and the development of medicines such as pituitary function controller, central function controller or pancreatic function controller by screening of the agonists or antagonists of the G-protein conjugate type receptor using the receptor-linking assay system. This physiologically active substance is prepared by cloning human pituitary cDNA through the PCR

Thr Pro Asp Ile Asn Pro Ala Trp Tyr Xaa Xaa Arg Gly Ile Arg Pro
 1 5 10 15
 Val Gly Arg Phe Xaa
 20